

WEST Search History for Application 10516695

Creation Date: 2009061023:00

| Query | DB | Op. | Plur. | Thes. | Date |
|--|------------------------|-----|-------|-------|------------|
| (252/609;524/493, 494, 841, 301, 307, 406, 408, 409).ccls. | PGPB, USPT, USOC | ADJ | YES | | 03-31-2008 |
| (524/413,430,431,432,433,434,435,436,437).ccls. | PGPB, USPT, USOC | ADJ | YES | | 03-31-2008 |
| ((252/609;524/493, 494, 841, 301, 307, 406, 408, 409).ccls.) or ((524/413, 430, 431, 432, 433, 434, 435, 436, 437).ccls.) | PGPB, USPT, USOC | ADJ | YES | | 03-31-2008 |
| (phenol or polyphenol or phenolic) (resin or polymer\$) | PGPB, USPT, USOC | ADJ | YES | | 03-31-2008 |
| novolac | PGPB, USPT, USOC | ADJ | YES | | 03-31-2008 |
| ((phenol or polyphenol or phenolic) (resin or polymer\$)) or (novolac) | PGPB, USPT, USOC | ADJ | YES | | 03-31-2008 |
| silicon alkoxide | PGPB, USPT, USOC | ADJ | YES | | 03-31-2008 |
| tetraalkoxysilane | PGPB, USPT, USOC | ADJ | YES | | 03-31-2008 |
| tetraalkoxy silane | PGPB, USPT, USOC | ADJ | YES | | 03-31-2008 |
| tetramethoxy silane | PGPB, USPT, USOC | ADJ | YES | | 03-31-2008 |
| tetramethoxysilane | PGPB, USPT, USOC | ADJ | YES | | 03-31-2008 |
| tetraethoxysilane | PGPB, USPT, USOC | ADJ | YES | | 03-31-2008 |

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|-------------------------|------------------------|-----|-----|--|------------|
| tetraethoxy silane | PGPB, USPT, USOC | ADJ | YES | | 03-31-2008 |
| tetraepoxy silane | PGPB, USPT, USOC | ADJ | YES | | 03-31-2008 |
| tetrapropoxy silane | PGPB, USPT, USOC | ADJ | YES | | 03-31-2008 |
| tetrapropoxysilane | PGPB, USPT, USOC | ADJ | YES | | 03-31-2008 |
| tetrabutoxysilane | PGPB, USPT, USOC | ADJ | YES | | 03-31-2008 |
| tetrabutoxy silane | PGPB, USPT, USOC | ADJ | YES | | 03-31-2008 |
| ethyltrimethoxysilane | PGPB, USPT, USOC | ADJ | YES | | 03-31-2008 |
| ethyltrimethoxy silane | PGPB, USPT, USOC | ADJ | YES | | 03-31-2008 |
| ethyltriethoxy silane | PGPB, USPT, USOC | ADJ | YES | | 03-31-2008 |
| ethyltriethoxysilane | PGPB, USPT, USOC | ADJ | YES | | 03-31-2008 |
| propyltrimethoxysilane | PGPB, USPT, USOC | ADJ | YES | | 03-31-2008 |
| propyltrimethoxy silane | PGPB, USPT, USOC | ADJ | YES | | 03-31-2008 |
| ethyltrimethoxy silane | PGPB, USPT, USOC | ADJ | YES | | 03-31-2008 |
| ethyltrimethoxysilane | PGPB, USPT, USOC | ADJ | YES | | 03-31-2008 |

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| methyltrimethoxysilane | PGPB, USPT, USOC | ADJ | YES | | 03-31-2008 |
| methyltrimethoxy silane | PGPB, USPT, USOC | ADJ | YES | | 03-31-2008 |
| (silicon alkoxide) or (tetraalkoxysilane) or (tetraalkoxy silane) or (tetramethoxy silane) or (tetramethoxysilane) or (tetraethoxysilane) or (tetraethoxy silane) or (tetraepoxy silane) or (tetrapropoxy silane) or (tetrapropoxysilane) | PGPB, USPT, USOC | ADJ | YES | | 03-31-2008 |
| (tetrabutoxysilane) or (tetrabutoxy silane) or (ethyltrimethyloxysilane) or (ethyltrimethyloxy silane) or (ethyltriethyloxy silane) or (ethyltriethyloxysilane) or (propyltrimethoxysilane) or (propyltrimethoxy silane) or (ethyltrimethoxy silane) or (ethyltrimethoxysilane) or (methyltrimethoxysilane) or (methyltrimethoxy silane) | PGPB, USPT, USOC | ADJ | YES | | 03-31-2008 |
| (silicon alkoxide or tetraalkoxysilane or tetraalkoxy silane or tetramethoxy silane or tetramethoxysilane or tetraethoxysilane or tetraethoxy silane or tetraepoxy silane or tetrapropoxy silane or tetrapropoxysilane) or (tetrabutoxysilane or tetrabutoxy silane or ethyltrimethyloxysilane or ethyltrimethyloxy silane or ethyltriethyloxy silane or ethyltriethyloxysilane or propyltrimethoxysilane or propyltrimethoxy silane or ethyltrimethoxy silane or ethyltrimethoxysilane or methyltrimethoxysilane or methyltrimethoxy silane) | PGPB, USPT, USOC | ADJ | YES | | 03-31-2008 |
| (lithium or sodium or strontium or copper or calcium or barium) alkoxide | PGPB, USPT, USOC | ADJ | YES | | 03-31-2008 |
| (lithium or sodium or strontium or copper or calcium or barium) with alkoxide | PGPB, USPT, USOC | ADJ | YES | | 03-31-2008 |
| (boron or zinc or aluminum or antimony or lead or phosphorous) with alkoxide | PGPB, USPT, USOC | ADJ | YES | | 03-31-2008 |
| (zirconium or titanium) with alkoxide | PGPB, USPT, USOC | ADJ | YES | | 03-31-2008 |
| (Li or Na or Sr or Cu or Ca or Ba or B or Zn or Al or Pb or P or Zr or Ti) with alkoxide | PGPB, USPT, USOC | ADJ | YES | | 03-31-2008 |
| ((lithium or sodium or strontium or copper or calcium or barium) alkoxide) or ((lithium or sodium or strontium or copper or calcium or barium) with alkoxide) or ((boron or | PGPB, USPT, USOC | ADJ | YES | | 03-31-2008 |

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| zinc or aluminum or antimony or lead or phosphorous) with alkoxide) or ((zirconium or titanium) with alkoxide) or ((Li or Na or Sr or Cu or Ca or Ba or B or Zn or Al or Pb or P or Zr or Ti) with alkoxide) | | | | | |
| ((phenol or polyphenol or phenolic) (resin or polymer\$) or novolac) same (silicon alkoxide or tetraalkoxysilane or tetraalkoxy silane or tetramethoxy silane or tetramethoxysilane or tetraethoxysilane or tetraethoxy silane or tetraepoxy silane or tetrapropoxy silane or tetrapropoxysilane or tetrabutoxysilane or tetrabutoxy silane or ethyltrimethoxysilane or ethyltrimethoxy silane or ethyltriethoxy silane or ethyltriethoxysilane or propyltrimethoxysilane or propyltrimethoxy silane or ethyltrimethoxy silane or ethyltrimethoxysilane or methyltrimethoxysilane or methyltrimethoxy silane) | PGPB, USPT, USOC | ADJ | YES | | 03-31-2008 |
| ((phenol or polyphenol or phenolic) (resin or polymer\$) or novolac same silicon alkoxide or tetraalkoxysilane or tetraalkoxy silane or tetramethoxy silane or tetramethoxysilane or tetraethoxysilane or tetraethoxy silane or tetraepoxy silane or tetrapropoxy silane or tetrapropoxysilane or tetrabutoxysilane or tetrabutoxy silane or ethyltrimethoxysilane or ethyltrimethoxy silane or ethyltriethoxy silane or ethyltriethoxysilane or propyltrimethoxysilane or propyltrimethoxy silane or ethyltrimethoxy silane or ethyltrimethoxysilane or methyltrimethoxysilane or methyltrimethoxy silane) same (hydrol\$ and (condensation or polycondensation)) | PGPB, USPT, USOC | ADJ | YES | | 03-31-2008 |
| silica and ((phenol or polyphenol or phenolic) (resin or polymer\$) or novolac same silicon alkoxide or tetraalkoxysilane or tetraalkoxy silane or tetramethoxy silane or tetramethoxysilane or tetraethoxysilane or tetraethoxy silane or tetraepoxy silane or tetrapropoxy silane or tetrapropoxysilane or tetrabutoxysilane or tetrabutoxy silane or ethyltrimethoxysilane or ethyltrimethoxy silane or ethyltriethoxy silane or ethyltriethoxysilane or propyltrimethoxysilane or propyltrimethoxy silane or ethyltrimethoxy silane or ethyltrimethoxysilane or methyltrimethoxysilane or methyltrimethoxy silane same (hydrol\$ and (condensation or polycondensation))) | PGPB, USPT, USOC | ADJ | YES | | 03-31-2008 |
| ((phenol or polyphenol or phenolic) (resin or polymer\$) or novolac same silicon alkoxide or tetraalkoxysilane or tetraalkoxy silane or tetramethoxy silane or tetramethoxysilane or tetraethoxysilane or tetraethoxy silane or tetraepoxy silane or tetrapropoxy silane or tetrapropoxysilane or tetrabutoxysilane or tetrabutoxy silane or ethyltrimethoxysilane or ethyltrimethoxy silane or ethyltriethoxy silane or ethyltriethoxysilane or propyltrimethoxysilane or propyltrimethoxy silane or | PGPB, USPT, USOC | ADJ | YES | | 03-31-2008 |

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| ethyltrimethoxy silane or ethyltrimethoxysilane or methyltrimethoxysilane or methyltrimethoxy silane same (hydrol\$ and (condensation or polycondensation))) not (silica and (phenol or polyphenol or phenolic) (resin or polymer\$) or novolac same silicon alkoxide or tetraalkoxysilane or tetraalkoxy silane or tetramethoxy silane or tetramethoxysilane or tetraethoxysilane or tetraethoxy silane or tetraepoxy silane or tetrapropoxy silane or tetrapropoxysilane or tetrabutoxysilane or tetrabutoxy silane or ethyltrimethoxysilane or ethyltrimethoxy silane or ethyltriethoxy silane or ethyltriethoxysilane or propyltrimethoxysilane or propyltrimethoxy silane or ethyltrimethoxy silane or ethyltrimethoxysilane or methyltrimethoxysilane or methyltrimethoxy silane same (hydrol\$ and (condensation or polycondensation))) | | | | | |
| ((phenol or polyphenol or phenolic) (resin or polymer\$) or novolac same silicon alkoxide or tetraalkoxysilane or tetraalkoxy silane or tetramethoxy silane or tetramethoxysilane or tetraethoxysilane or tetraethoxy silane or tetraepoxy silane or tetrapropoxy silane or tetrapropoxysilane or tetrabutoxysilane or tetrabutoxy silane or ethyltrimethoxysilane or ethyltrimethoxy silane or ethyltriethoxy silane or ethyltriethoxysilane or propyltrimethoxysilane or propyltrimethoxy silane or ethyltrimethoxy silane or ethyltrimethoxysilane or methyltrimethoxysilane or methyltrimethoxy silane) and (hydrol\$ same (condensation or polycondensation)) | PGPB, USPT, USOC | ADJ | YES | | 03-31-2008 |
| ((phenol or polyphenol or phenolic) (resin or polymer\$) or novolac same silicon alkoxide or tetraalkoxysilane or tetraalkoxy silane or tetramethoxy silane or tetramethoxysilane or tetraethoxysilane or tetraethoxy silane or tetraepoxy silane or tetrapropoxy silane or tetrapropoxysilane or tetrabutoxysilane or tetrabutoxy silane or ethyltrimethoxysilane or ethyltrimethoxy silane or ethyltriethoxy silane or ethyltriethoxysilane or propyltrimethoxysilane or propyltrimethoxy silane or ethyltrimethoxy silane or ethyltrimethoxysilane or methyltrimethoxysilane or methyltrimethoxy silane and (hydrol\$ same (condensation or polycondensation))) not ((phenol or polyphenol or phenolic) (resin or polymer\$) or novolac same silicon alkoxide or tetraalkoxysilane or tetraalkoxy silane or tetramethoxy silane or tetramethoxysilane or tetraethoxysilane or tetraethoxy silane or tetraepoxy silane or tetrapropoxy silane or tetrapropoxysilane or tetrabutoxysilane or tetrabutoxy silane or ethyltrimethoxysilane or ethyltrimethoxy silane or ethyltriethoxy silane or ethyltriethoxysilane or propyltrimethoxysilane or propyltrimethoxy silane or ethyltrimethoxy silane or ethyltrimethoxysilane or | PGPB, USPT, USOC | ADJ | YES | | 03-31-2008 |

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| methytrimethoxysilane or methytrimethoxy silane same (hydrol\$ and (condensation or polycondensation))) | | | | | |
| ((phenol or polyphenol or phenolic) (resin or polymer\$) or novolac) same ((lithium or sodium or stronium or copper or calcium or barium) alkoxide or (lithium or sodium or stronium or copper or calcium or barium) with alkoxide or (boron or zinc or aluminum or antimony or lead oe phosphorous) with alkoxide or (zirconium or titanium) with alkoxide or (Li or Na or Sr or Cu or Ca or Ba or B or Zn or Al or Pb or P or Zr or Ti) with alkoxide) | PGPB, USPT, USOC | ADJ | YES | | 03-31-2008 |
| ((phenol or polyphenol or phenolic) (resin or polymer\$) or novolac same (lithium or sodium or stronium or copper or calcium or barium) alkoxide or (lithium or sodium or stronium or copper or calcium or barium) with alkoxide or (boron or zinc or aluminum or antimony or lead oe phosphorous) with alkoxide or (zirconium or titanium) with alkoxide or (Li or Na or Sr or Cu or Ca or Ba or B or Zn or Al or Pb or P or Zr or Ti) with alkoxide) not ((phenol or polyphenol or phenolic) (resin or polymer\$) or novolac same silicon alkoxide or tetraalkoxysilane or tetraalkoxy silane or tetramethoxy silane or tetramethoxysilane or tetraethoxysilane or tetraethoxy silane or tetraepoxy silane or tetrapropoxy silane or tetrapropoxysilane or tetrabutoxysilane or tetrabutoxy silane or ethyltrimethyloxysilane or ethyltrimethyloxy silane or ethyltriethyloxy silane or ethyltriethyloxysilane or propyltrimethoxysilane or propyltrimethoxy silane or ethyltrimethoxy silane or ethyltrimethoxysilane or methyltrimethoxysilane or methyltrimethoxy silane) | PGPB, USPT, USOC | ADJ | YES | | 03-31-2008 |
| ((phenol or polyphenol or phenolic) (resin or polymer\$) or novolac same silicon alkoxide or tetraalkoxysilane or tetraalkoxy silane or tetramethoxy silane or tetramethoxysilane or tetraethoxysilane or tetraethoxy silane or tetraepoxy silane or tetrapropoxy silane or tetrapropoxysilane or tetrabutoxysilane or tetrabutoxy silane or ethyltrimethyloxysilane or ethyltrimethyloxy silane or ethyltriethyloxy silane or ethyltriethyloxysilane or propyltrimethoxysilane or propyltrimethoxy silane or ethyltrimethoxy silane or ethyltrimethoxysilane or methyltrimethoxysilane or methyltrimethoxy silane and (hydrol\$ same (condensation or polycondensation)) not (phenol or polyphenol or phenolic) (resin or polymer\$) or novolac same silicon alkoxide or tetraalkoxysilane or tetraalkoxy silane or tetramethoxy silane or tetramethoxysilane or tetraethoxysilane or tetraethoxy silane or tetraepoxy silane or tetrapropoxy silane or tetrapropoxysilane or tetrabutoxysilane or tetrabutoxy silane or ethyltrimethyloxysilane or ethyltrimethyloxy silane or ethyltriethyloxy silane or ethyltriethyloxysilane or | PGPB, USPT, USOC | ADJ | YES | | 03-31-2008 |

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| propyltrimethoxysilane or propyltrimethoxy silane or ethyltrimethoxy silane or ethyltrimethoxysilane or methyltrimethoxysilane or methyltrimethoxy silane same (hydrol\$ and (condensation or polycondensation))) and (epoxy or epoxide) | | | | | |
| ((phenol or polyphenol or phenolic) (resin or polymer\$) or novolac same (lithium or sodium or stronium or copper or calcium or barium) alkoxide or (lithium or sodium or stronium or copper or calcium or barium) with alkoxide or (boron or zinc or aluminum or antimony or lead oe phosphorous) with alkoxide or (zirconium or titanium) with alkoxide or (Li or Na or Sr or Cu or Ca or Ba or B or Zn or Al or Pb or P or Zr or Ti) with alkoxide not (phenol or polyphenol or phenolic) (resin or polymer\$) or novolac same silicon alkoxide or tetraalkoxysilane or tetraalkoxy silane or tetramethoxy silane or tetramethoxysilane or tetraethoxysilane or tetraethoxy silane or tetraepoxy silane or tetrapropoxy silane or tetrapropoxysilane or tetrabutoxysilane or tetrabutoxy silane or ethyltrimethoxysilane or ethyltrimethoxy silane or ethyltriethoxy silane or ethyltriethoxysilane or propyltrimethoxysilane or propyltrimethoxy silane or ethyltrimethoxy silane or ethyltrimethoxysilane or methyltrimethoxysilane or methyltrimethoxy silane) and (hydrol\$ same (condensation or polycondensation)) | PGPB, USPT, USOC | ADJ | YES | | 03-31-2008 |
| (fire or flame) (retard\$ or suppress\$ or hinder\$) | PGPB, USPT, USOC | ADJ | YES | | 03-31-2008 |
| (((phenol or polyphenol or phenolic) (resin or polymer\$) or novolac same silicon alkoxide or tetraalkoxysilane or tetraalkoxy silane or tetramethoxy silane or tetramethoxysilane or tetraethoxysilane or tetraethoxy silane or tetraepoxy silane or tetrapropoxy silane or tetrapropoxysilane or tetrabutoxysilane or tetrabutoxy silane or ethyltrimethoxysilane or ethyltrimethoxy silane or ethyltriethoxy silane or ethyltriethoxysilane or propyltrimethoxysilane or propyltrimethoxy silane or ethyltrimethoxy silane or ethyltrimethoxysilane or methyltrimethoxysilane or methyltrimethoxy silane same (hydrol\$ and (condensation or polycondensation))) or ((phenol or polyphenol or phenolic) (resin or polymer\$) or novolac same (lithium or sodium or stronium or copper or calcium or barium) alkoxide or (lithium or sodium or stronium or copper or calcium or barium) with alkoxide or (boron or zinc or aluminum or antimony or lead oe phosphorous) with alkoxide or (zirconium or titanium) with alkoxide or (Li or Na or Sr or Cu or Ca or Ba or B or Zn or Al or Pb or P or Zr or Ti) with alkoxide not (phenol or polyphenol or phenolic) (resin or polymer\$) or novolac same | PGPB, USPT, USOC | ADJ | YES | | 03-31-2008 |

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| silicon alkoxide or tetraalkoxysilane or tetraalkoxy silane or tetramethoxy silane or tetramethoxysilane or tetraethoxysilane or tetraethoxy silane or tetraepoxy silane or tetrapropoxy silane or tetrapropoxysilane or tetrabutoxysilane or tetrabutoxy silane or ethyltrimethoxysilane or ethyltrimethoxy silane or ethyltriethoxy silane or ethyltriethoxysilane or propyltrimethoxysilane or propyltrimethoxy silane or ethyltrimethoxy silane or ethyltrimethoxysilane or methyltrimethoxysilane or methyltrimethoxy silane and (hydrol\$ same (condensation or polycondensation)))) and ((fire or flame) (retard\$ or suppress\$ or hinder\$)) | | | | | |
| (((phenol or polyphenol or phenolic) (resin or polymer\$) or novolac same silicon alkoxide or tetraalkoxysilane or tetraalkoxy silane or tetramethoxy silane or tetramethoxysilane or tetraethoxysilane or tetraethoxy silane or tetraepoxy silane or tetrapropoxy silane or tetrapropoxysilane or tetrabutoxysilane or tetrabutoxy silane or ethyltrimethoxysilane or ethyltrimethoxy silane or ethyltriethoxy silane or ethyltriethoxysilane or propyltrimethoxysilane or propyltrimethoxy silane or ethyltrimethoxy silane or ethyltrimethoxysilane or methyltrimethoxysilane or methyltrimethoxy silane same (hydrol\$ and (condensation or polycondensation))) or ((phenol or polyphenol or phenolic) (resin or polymer\$) or novolac same (lithium or sodium or strontium or copper or calcium or barium) alkoxide or (lithium or sodium or strontium or copper or calcium or barium) with alkoxide or (boron or zinc or aluminum or antimony or lead or phosphorous) with alkoxide or (zirconium or titanium) with alkoxide or (Li or Na or Sr or Cu or Ca or Ba or B or Zn or Al or Pb or P or Zr or Ti) with alkoxide not (phenol or polyphenol or phenolic) (resin or polymer\$) or novolac same silicon alkoxide or tetraalkoxysilane or tetraalkoxy silane or tetramethoxy silane or tetramethoxysilane or tetraethoxysilane or tetraethoxy silane or tetraepoxy silane or tetrapropoxy silane or tetrapropoxysilane or tetrabutoxysilane or tetrabutoxy silane or ethyltrimethoxysilane or ethyltrimethoxy silane or ethyltriethoxy silane or ethyltriethoxysilane or propyltrimethoxysilane or propyltrimethoxy silane or ethyltrimethoxy silane or ethyltrimethoxysilane or methyltrimethoxysilane or methyltrimethoxy silane and (hydrol\$ same (condensation or polycondensation)))) and ((252/609;524/493, 494, 841, 301, 307, 406, 408, 409).ccls. or (524/413, 430, 431, 432, 433, 434, 435, 436, 437).ccls.) | PGPB, USPT, USOC | ADJ | YES | | 03-31-2008 |
| (524/492).ccls. | PGPB, USPT, USOC | ADJ | YES | | 03-31-2008 |

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| ((252/609;524/493, 494, 841, 301, 307, 406, 408, 409).ccls. or (524/413, 430, 431, 432, 433, 434, 435, 436, 437).ccls.) or ((524/492).ccls.) | PGPB, USPT, USOC | ADJ | YES | | 03-31-2008 |
| (((phenol or polyphenol or phenolic) (resin or polymer\$) or novolac same silicon alkoxide or tetraalkoxysilane or tetraalkoxy silane or tetramethoxy silane or tetramethoxysilane or tetraethoxysilane or tetraethoxy silane or tetraepoxy silane or tetrapropoxy silane or tetrapropoxysilane or tetrabutoxysilane or tetrabutoxy silane or ethyltrimethoxysilane or ethyltrimethoxy silane or ethyltriethoxy silane or ethyltriethoxysilane or propyltrimethoxysilane or propyltrimethoxy silane or ethyltrimethoxy silane or ethyltrimethoxysilane or methyltrimethoxysilane or methyltrimethoxy silane same (hydrol\$ and (condensation or polycondensation))) or ((phenol or polyphenol or phenolic) (resin or polymer\$) or novolac same (lithium or sodium or strontium or copper or calcium or barium) alkoxide or (lithium or sodium or strontium or copper or calcium or barium) with alkoxide or (boron or zinc or aluminum or antimony or lead or phosphorous) with alkoxide or (zirconium or titanium) with alkoxide or (Li or Na or Sr or Cu or Ca or Ba or B or Zn or Al or Pb or P or Zr or Ti) with alkoxide not (phenol or polyphenol or phenolic) (resin or polymer\$) or novolac same silicon alkoxide or tetraalkoxysilane or tetraalkoxy silane or tetramethoxy silane or tetramethoxysilane or tetraethoxysilane or tetraethoxy silane or tetraepoxy silane or tetrapropoxy silane or tetrapropoxysilane or tetrabutoxysilane or tetrabutoxy silane or ethyltrimethoxysilane or ethyltrimethoxy silane or ethyltriethoxy silane or ethyltriethoxysilane or propyltrimethoxysilane or propyltrimethoxy silane or ethyltrimethoxy silane or ethyltrimethoxysilane or methyltrimethoxysilane or methyltrimethoxy silane and (hydrol\$ same (condensation or polycondensation)))) and ((252/609;524/493, 494, 841, 301, 307, 406, 408, 409).ccls. or (524/413, 430, 431, 432, 433, 434, 435, 436, 437).ccls. or (524/492).ccls.) | PGPB, USPT, USOC | ADJ | YES | | 03-31-2008 |
| sugioka-takuo.in. | PGPB, USPT, USOC | ADJ | YES | | 11-05-2008 |
| polyphenol z | PGPB, USPT, USOC | ADJ | YES | | 11-05-2008 |
| poly phenol z | PGPB, USPT, USOC | ADJ | YES | | 11-05-2008 |

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|---|------------------------|-----|-----|--|------------|
| td-2131 same novolak | PGPB, USPT, USOC | ADJ | YES | | 11-05-2008 |
| (sugioka-takuo.in.) and (td-2131 same novolak) | PGPB, USPT, USOC | ADJ | YES | | 11-05-2008 |
| silica or (silicon dioxide) | PGPB, USPT, USOC | ADJ | YES | | 11-05-2008 |
| (td-2131 same novolak) same (silica or (silicon dioxide)) | PGPB, USPT, USOC | ADJ | YES | | 11-05-2008 |
| (td-2131 same novolak) and (silica or (silicon dioxide)) | PGPB, USPT, USOC | ADJ | YES | | 11-05-2008 |
| condensation and hydrolysis | PGPB, USPT, USOC | ADJ | YES | | 11-05-2008 |
| (td-2131 same novolak and silica or (silicon dioxide)) and (condensation and hydrolysis) | PGPB, USPT, USOC | ADJ | YES | | 11-05-2008 |
| phenolic near2 hydroxy\$ | PGPB, USPT, USOC | ADJ | YES | | 11-05-2008 |
| connected or bonded or attached | PGPB, USPT, USOC | ADJ | YES | | 11-05-2008 |
| cyclic or cyclo\$ | PGPB, USPT, USOC | ADJ | YES | | 11-05-2008 |
| (phenolic near2 hydroxy\$) with (connected or bonded or attached) with (cyclic or cyclo\$) | PGPB, USPT, USOC | ADJ | YES | | 11-05-2008 |
| (td-2131 same novolak) and (phenolic near2 hydroxy\$ with connected or bonded or attached with cyclic or cyclo\$) | PGPB, USPT, USOC | ADJ | YES | | 11-05-2008 |
| (phenolic near2 hydroxy\$ with connected or bonded or attached with cyclic or cyclo\$) same (silica or (silicon dioxide)) | PGPB, USPT, USOC | ADJ | YES | | 11-05-2008 |
| (phenolic near2 hydroxy\$ with connected or bonded or attached with cyclic or cyclo\$) and (silica or (silicon dioxide)) | PGPB, USPT, USOC | ADJ | YES | | 11-05-2008 |

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| (phenolic near2 hydroxy\$ with connected or bonded or attached with cyclic or cyclo\$) and (condensation and hydrolysis) | PGPB, USPT, USOC | ADJ | YES | | 11-05-2008 |
| (phenolic near2 hydroxy\$ with connected or bonded or attached with cyclic or cyclo\$ and silica or (silicon dioxide)) not (phenolic near2 hydroxy\$ with connected or bonded or attached with cyclic or cyclo\$ and condensation and hydrolysis) | PGPB, USPT, USOC | ADJ | YES | | 11-05-2008 |
| (phenolic near2 hydroxy\$ with connected or bonded or attached with cyclic or cyclo\$) not ((phenolic near2 hydroxy\$ with connected or bonded or attached with cyclic or cyclo\$ and silica or (silicon dioxide)) or (phenolic near2 hydroxy\$ with connected or bonded or attached with cyclic or cyclo\$ and condensation and hydrolysis)) | PGPB, USPT, USOC | ADJ | YES | | 11-05-2008 |
| polyphenol | PGPB, USPT, USOC | ADJ | YES | | 11-05-2008 |
| (phenolic near2 hydroxy\$ with connected or bonded or attached with cyclic or cyclo\$) and (polyphenol) | PGPB, USPT, USOC | ADJ | YES | | 11-05-2008 |
| novolak | PGPB, USPT, USOC | ADJ | YES | | 11-05-2008 |
| (phenolic near2 hydroxy\$ with connected or bonded or attached with cyclic or cyclo\$) and (novolak) | PGPB, USPT, USOC | ADJ | YES | | 11-05-2008 |
| (252/609;524/492, 493, 494, 841, 301, 307, 406, 408, 409, 413, 430, 431, 432, 433, 434, 435, 436, 437).ccls. | PGPB, USPT, USOC | ADJ | YES | | 03-17-2009 |
| ((252/609;524/492, 493, 494, 841, 301, 307, 406, 408, 409, 413, 430, 431, 432, 433, 434, 435, 436, 437).ccls.) and @pd>20080330 | PGPB, USPT, USOC | ADJ | YES | | 03-17-2009 |
| (polyphenol) | PGPB, USPT, USOC | ADJ | YES | | 03-17-2009 |
| (phenol or phenolic) (resin or polymer\$ or copolymer) | PGPB, USPT, USOC | ADJ | YES | | 03-17-2009 |
| novolac | PGPB, USPT, USOC | ADJ | YES | | 03-17-2009 |
| | | ADJ | YES | | 03-17-2009 |

| | | | | | |
|---|------------------------|-----|-----|--|------------|
| ((polyphenol)) or ((phenol or phenolic) (resin or polymer\$ or copolymer)) or (novolac) | PGPB, USPT, USOC | | | | |
| silica | PGPB, USPT, USOC | ADJ | YES | | 03-17-2009 |
| silicon dioxide | PGPB, USPT, USOC | ADJ | YES | | 03-17-2009 |
| SiO ₂ | PGPB, USPT, USOC | ADJ | YES | | 03-17-2009 |
| (silica) or (silicon dioxide) or (SiO ₂) | PGPB, USPT, USOC | ADJ | YES | | 03-17-2009 |
| (microfine) (particle or particulate) | PGPB, USPT, USOC | ADJ | YES | | 03-17-2009 |
| (micron or um)with (silica or silicon dioxide or SiO ₂) | PGPB, USPT, USOC | ADJ | YES | | 03-17-2009 |
| (micron or um) with (silica or silicon dioxide or SiO ₂) | PGPB, USPT, USOC | ADJ | YES | | 03-17-2009 |
| (nano or nm) with (silica or silicon dioxide or SiO ₂) | PGPB, USPT, USOC | ADJ | YES | | 03-17-2009 |
| (nanometer or nm) with (silica or silicon dioxide or SiO ₂) | PGPB, USPT, USOC | ADJ | YES | | 03-17-2009 |
| ((micron or um)with silica or silicon dioxide or SiO ₂) or ((micron or um) with silica or silicon dioxide or SiO ₂) or ((nano or nm) with silica or silicon dioxide or SiO ₂) or ((nanometer or nm) with silica or silicon dioxide or SiO ₂) | PGPB, USPT, USOC | ADJ | YES | | 03-17-2009 |
| ((microfine) (particle or particulate)) or ((micron or um)with silica or silicon dioxide or SiO ₂ or (micron or um) with silica or silicon dioxide or SiO ₂ or (nano or nm) with silica or silicon dioxide or SiO ₂ or (nanometer or nm) with silica or silicon dioxide or SiO ₂) | PGPB, USPT, USOC | ADJ | YES | | 03-17-2009 |
| silicon alkoxide | PGPB, USPT, | ADJ | YES | | 03-17-2009 |

| | | | | | |
|--|------------------------|-----|-----|--|------------|
| | USOC | | | | |
| hydrolysis with condensation | PGPB, USPT, USOC | ADJ | YES | | 03-17-2009 |
| ((polyphenol) or (phenol or phenolic) (resin or polymer\$ or copolymer) or novolac) same (silica or silicon dioxide or SiO ₂) same ((microfine) (particle or particulate) or (micron or um)with silica or silicon dioxide or SiO ₂ or (micron or um) with silica or silicon dioxide or SiO ₂ or (nano or nm) with silica or silicon dioxide or SiO ₂ or (nanometer or nm) with silica or silicon dioxide or SiO ₂) | PGPB, USPT, USOC | ADJ | YES | | 03-17-2009 |
| ((252/609;524/492, 493, 494, 841, 301, 307, 406, 408, 409, 413, 430, 431, 432, 433, 434, 435, 436, 437).cls. and @pd>20080330) and ((polyphenol) or (phenol or phenolic) (resin or polymer\$ or copolymer) or novolac same silica or silicon dioxide or SiO ₂ same (microfine) (particle or particulate) or (micron or um)with silica or silicon dioxide or SiO ₂ or (micron or um) with silica or silicon dioxide or SiO ₂ or (nano or nm) with silica or silicon dioxide or SiO ₂ or (nanometer or nm) with silica or silicon dioxide or SiO ₂) | PGPB, USPT, USOC | ADJ | YES | | 03-17-2009 |
| ((polyphenol) or (phenol or phenolic) (resin or polymer\$ or copolymer) or novolac same silica or silicon dioxide or SiO ₂ same (microfine) (particle or particulate) or (micron or um)with silica or silicon dioxide or SiO ₂ or (micron or um) with silica or silicon dioxide or SiO ₂ or (nano or nm) with silica or silicon dioxide or SiO ₂ or (nanometer or nm) with silica or silicon dioxide or SiO ₂) same (hydrolysis with condensation) | PGPB, USPT, USOC | ADJ | YES | | 03-17-2009 |
| (((polyphenol) or (phenol or phenolic) (resin or polymer\$ or copolymer) or novolac) same (silica or silicon dioxide or SiO ₂) same ((microfine) (particle or particulate) or (micron or um)with silica or silicon dioxide or SiO ₂ or (micron or um) with silica or silicon dioxide or SiO ₂ or (nano or nm) with silica or silicon dioxide or SiO ₂ or (nanometer or nm) with silica or silicon dioxide or SiO ₂)).clm. | PGPB, USPT, USOC | ADJ | YES | | 03-17-2009 |
| (((polyphenol) or (phenol or phenolic) (resin or polymer\$ or copolymer) or novolac) and (silica or silicon dioxide or SiO ₂) and ((microfine) (particle or particulate) or (micron or um)with silica or silicon dioxide or SiO ₂ or (micron or um) with silica or silicon dioxide or SiO ₂ or (nano or nm) with silica or silicon dioxide or SiO ₂ or (nanometer or nm) with silica or silicon dioxide or SiO ₂) and (hydrolysis with condensation)).clm. | PGPB, USPT, USOC | ADJ | YES | | 03-17-2009 |

| | | | | | |
|--|------------------|-----|-----|--|------------|
| (252/609;524/492, 493, 494, 841, 301, 307, 406, 408, 409, 413, 430, 431, 432, 433, 434, 435, 436, 437).ccls. | PGPB, USPT, USOC | ADJ | YES | | 06-10-2009 |
| ((252/609;524/492, 493, 494, 841, 301, 307, 406, 408, 409, 413, 430, 431, 432, 433, 434, 435, 436, 437).ccls.) and @pd>20090316 | PGPB, USPT, USOC | ADJ | YES | | 06-10-2009 |
| polyphenol | PGPB, USPT, USOC | ADJ | YES | | 06-10-2009 |
| (phenol or phenolic) (resin or polymer\$ or copolymer) | PGPB, USPT, USOC | ADJ | YES | | 06-10-2009 |
| novolac | PGPB, USPT, USOC | ADJ | YES | | 06-10-2009 |
| (polyphenol) or ((phenol or phenolic) (resin or polymer\$ or copolymer)) or (novolac) | PGPB, USPT, USOC | ADJ | YES | | 06-10-2009 |
| silica or (silicon dioxide) | PGPB, USPT, USOC | ADJ | YES | | 06-10-2009 |
| SiO ₂ | PGPB, USPT, USOC | ADJ | YES | | 06-10-2009 |
| (silica or (silicon dioxide)) or (SiO ₂) | PGPB, USPT, USOC | ADJ | YES | | 06-10-2009 |
| microfine (particle or particulate) | PGPB, USPT, USOC | ADJ | YES | | 06-10-2009 |
| (micron or um) with (silica or (silicon dioxide) or SiO ₂) | PGPB, USPT, USOC | ADJ | YES | | 06-10-2009 |
| (nano or nm) with (silica or (silicon dioxide) or SiO ₂) | PGPB, USPT, USOC | ADJ | YES | | 06-10-2009 |
| (nanometer or nm) with (silica or (silicon dioxide) or SiO ₂) | PGPB, USPT, USOC | ADJ | YES | | 06-10-2009 |
| ((micron or um) with silica or (silicon dioxide) or SiO ₂) or ((nano or nm) with silica or (silicon dioxide) or SiO ₂) or ((nanometer or nm) with silica or (silicon | PGPB, USPT, USOC | ADJ | YES | | 06-10-2009 |

| | | | | | |
|--|------------------|-----|-----|--|------------|
| dioxide) or SiO ₂) | | | | | |
| (microfine (particle or particulate)) with (silica or (silicon dioxide) or SiO ₂) | PGPB, USPT, USOC | ADJ | YES | | 06-10-2009 |
| ((micron or um) with silica or (silicon dioxide) or SiO ₂ or (nano or nm) with silica or (silicon dioxide) or SiO ₂ or (nanometer or nm) with silica or (silicon dioxide) or SiO ₂) or (microfine (particle or particulate) with silica or (silicon dioxide) or SiO ₂) | PGPB, USPT, USOC | ADJ | YES | | 06-10-2009 |
| silicon alkoxide | PGPB, USPT, USOC | ADJ | YES | | 06-10-2009 |
| silicon alkoxide same (hydrolysis) same condensation | PGPB, USPT, USOC | ADJ | YES | | 06-10-2009 |
| (silica or (silicon dioxide) or SiO ₂) same (silicon alkoxide same (hydrolysis) same condensation) | PGPB, USPT, USOC | ADJ | YES | | 06-10-2009 |
| (polyphenol or (phenol or phenolic) (resin or polymer\$ or copolymer) or novolac) same (silica or (silicon dioxide) or SiO ₂ same silicon alkoxide same (hydrolysis) same condensation) | PGPB, USPT, USOC | ADJ | YES | | 06-10-2009 |
| (polyphenol or (phenol or phenolic) (resin or polymer\$ or copolymer) or novolac) and (silica or (silicon dioxide) or SiO ₂ same silicon alkoxide same (hydrolysis) same condensation) | PGPB, USPT, USOC | ADJ | YES | | 06-10-2009 |
| ((252/609;524/492, 493, 494, 841, 301, 307, 406, 408, 409, 413, 430, 431, 432, 433, 434, 435, 436, 437).ccls. and @pd>20090316) and (polyphenol or (phenol or phenolic) (resin or polymer\$ or copolymer) or novolac and silica or (silicon dioxide) or SiO ₂ same silicon alkoxide same (hydrolysis) same condensation) | PGPB, USPT, USOC | ADJ | YES | | 06-10-2009 |
| ((polyphenol or (phenol or phenolic) (resin or polymer\$ or copolymer) or novolac) and (silica or (silicon dioxide) or SiO ₂) and ((micron or um) with silica or (silicon dioxide) or SiO ₂ or (nano or nm) with silica or (silicon dioxide) or SiO ₂ or (nanometer or nm) with silica or (silicon dioxide) or SiO ₂ or microfine (particle or particulate) with silica or (silicon dioxide) or SiO ₂)).clm. | PGPB, USPT, USOC | ADJ | YES | | 06-10-2009 |
| ((polyphenol or (phenol or phenolic) (resin or polymer\$ or copolymer) or novolac and silica or (silicon dioxide) or SiO ₂ and (micron or um) with silica or (silicon dioxide) or SiO ₂ or (nano or nm) with silica or (silicon dioxide) | PGPB, USPT, USOC | ADJ | YES | | 06-10-2009 |

| | | | | | |
|--|------------------|-----|-----|--|------------|
| or SiO ₂ or (nanometer or nm) with silica or (silicon dioxide) or SiO ₂ or microfine (particle or particulate) with silica or (silicon dioxide) or SiO ₂).clm.) and ((252/609;524/492, 493, 494, 841, 301, 307, 406, 408, 409, 413, 430, 431, 432, 433, 434, 435, 436, 437).cls. and @pd>20090316) | | | | | |
| ((polyphenol or (phenol or phenolic) (resin or polymer\$ or copolymer) or novolac and silica or (silicon dioxide) or SiO ₂ and (micron or um) with silica or (silicon dioxide) or SiO ₂ or (nano or nm) with silica or (silicon dioxide) or SiO ₂ or (nanometer or nm) with silica or (silicon dioxide) or SiO ₂ or microfine (particle or particulate) with silica or (silicon dioxide) or SiO ₂).clm.) and @pd>20090316 | PGPB, USPT, USOC | ADJ | YES | | 06-10-2009 |
| ((polyphenol or (phenol or phenolic) (resin or polymer\$ or copolymer) or novolac) and (silica or (silicon dioxide) or SiO ₂) and ((micron or um) with silica or (silicon dioxide) or SiO ₂ or (nano or nm) with silica or (silicon dioxide) or SiO ₂ or (nanometer or nm) with silica or (silicon dioxide) or SiO ₂ or microfine (particle or particulate) with silica or (silicon dioxide) or SiO ₂) and (silicon alkoxide same (hydrolysis) same condensation)).clm. | PGPB, USPT, USOC | ADJ | YES | | 06-10-2009 |
| ((polyphenol or (phenol or phenolic) (resin or polymer\$ or copolymer) or novolac) and (silica or (silicon dioxide) or SiO ₂) and ((micron or um) with silica or (silicon dioxide) or SiO ₂ or (nano or nm) with silica or (silicon dioxide) or SiO ₂ or (nanometer or nm) with silica or (silicon dioxide) or SiO ₂ or microfine (particle or particulate) with silica or (silicon dioxide) or SiO ₂) and (silicon alkoxide)).clm. | PGPB, USPT, USOC | ADJ | YES | | 06-10-2009 |
| sugiaka-takuo.in. | PGPB, USPT, USOC | ADJ | YES | | 06-10-2009 |
| sugioka-takuo.in. | PGPB, USPT, USOC | ADJ | YES | | 06-10-2009 |
| hirano-naoko.in. | PGPB, USPT, USOC | ADJ | YES | | 06-10-2009 |
| (sugioka-takuo.in.) or (hirano-naoko.in.) | PGPB, USPT, USOC | ADJ | YES | | 06-10-2009 |
| (sugioka-takuo.in. or hirano-naoko.in.) and @pd>20090316 | PGPB, USPT, | ADJ | YES | | 06-10-2009 |

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|--|------|--|--|--|--|
| | USOC | | | | |
|--|------|--|--|--|--|